

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

**FACULTY OF APPLIED SCIENCES
DEPARTMENT OF FOREST RESOURCES AND WILDLIFE MANAGEMENT
BACHELOR OF SCIENCE HONOURS DEGREE
MAIN EXAMINATION**

PLANT SYSTEMATICS AND FIELD IDENTIFICATION: EFW 2203

May 2014

Time Allowed: 3 HOURS

Total Marks: 100

INSTRUCTIONS TO CANDIDATES:

Answer **QUESTION ONE** and any other **THREE**. Each question carries **25 marks**.

1. Compare and contrast, floristic and physiognomic features of Kalahari Sand Forests and Afromontane Cloud Forests in Zimbabwe.
2. (a) Provide an overview of Acacias. **[10 marks]**
(b) Comment on the distribution and ecology of Acacia taxa in Zimbabwe. **[15 marks]**
3. (a) Explain the main features of the families Myrtaceae and Pinaceae. **[10 marks]**
(b) Outline, with illustrations, the field identification characteristics of commercially cultivated members of the families in 3(a). **[15 marks]**
4. Discuss the steps followed when collecting, pressing and drying, and mounting specimens for the herbarium with minimum facilities.
5. Based on world vegetation, compare and contrast latitudinal and altitudinal vegetation variation.
6. With **NAMED** examples, discuss the biology and phenology of introduced plants species different habitats in Zimbabwe.

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